



Digital Television Datacasting for Public Safety

Enhancing Public Safety Communications

Indiana FirstNet Conference 5/2/2017

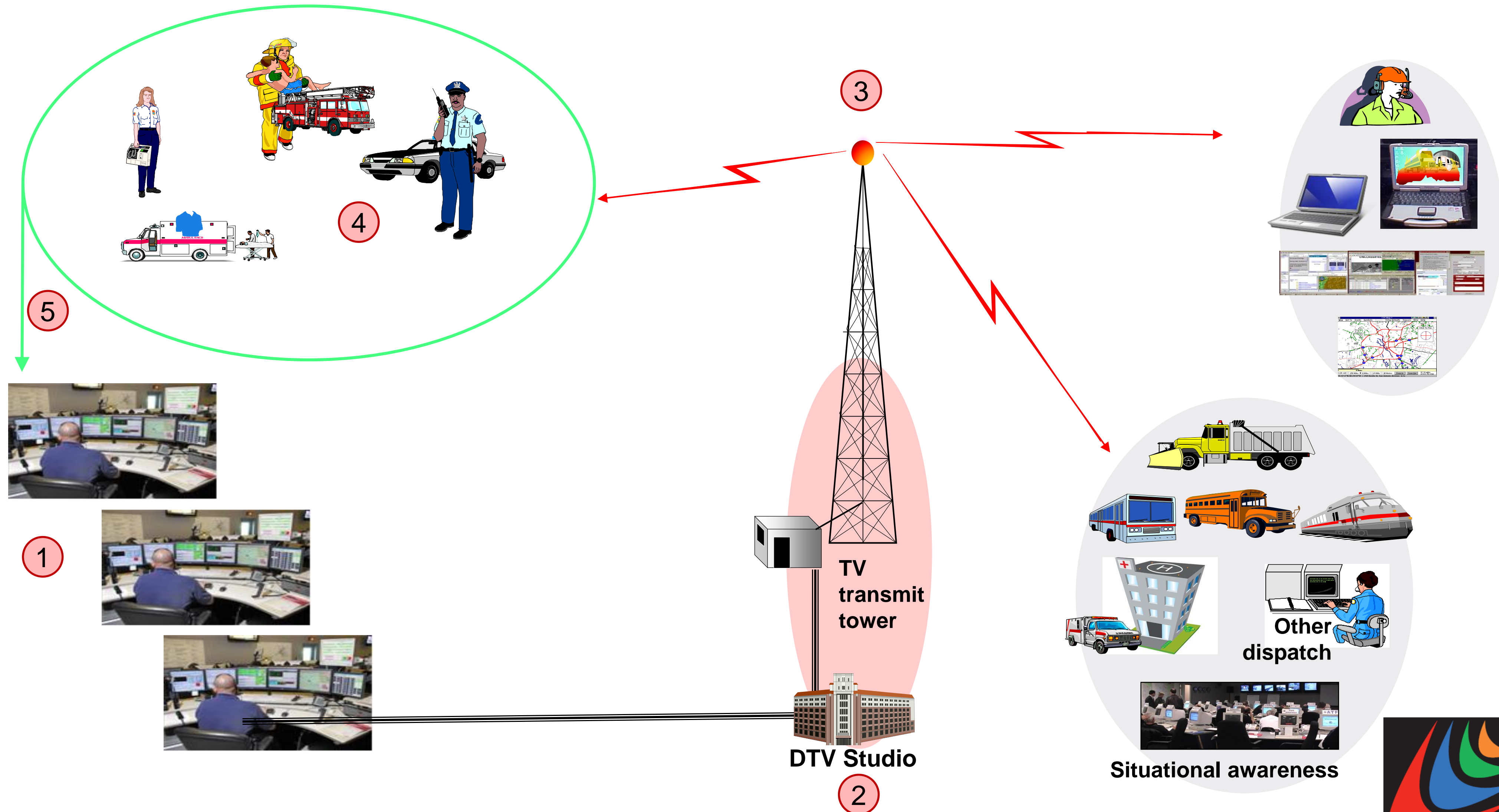
Public television is reliable

- Covers 96% of the US population
 - Including territories
- Backup generators
- Maintained 24/7 by professional engineers
- Almost 100% uptime
 - Even during disasters and extended power outages
- Connections to fiber, microwave and satellite backbones for their primary business, which can all be leveraged for public safety
- Secure facilities
 - Most require keycard access to servers and infrastructure
- Operates on licensed spectrum, not corruptible by the public

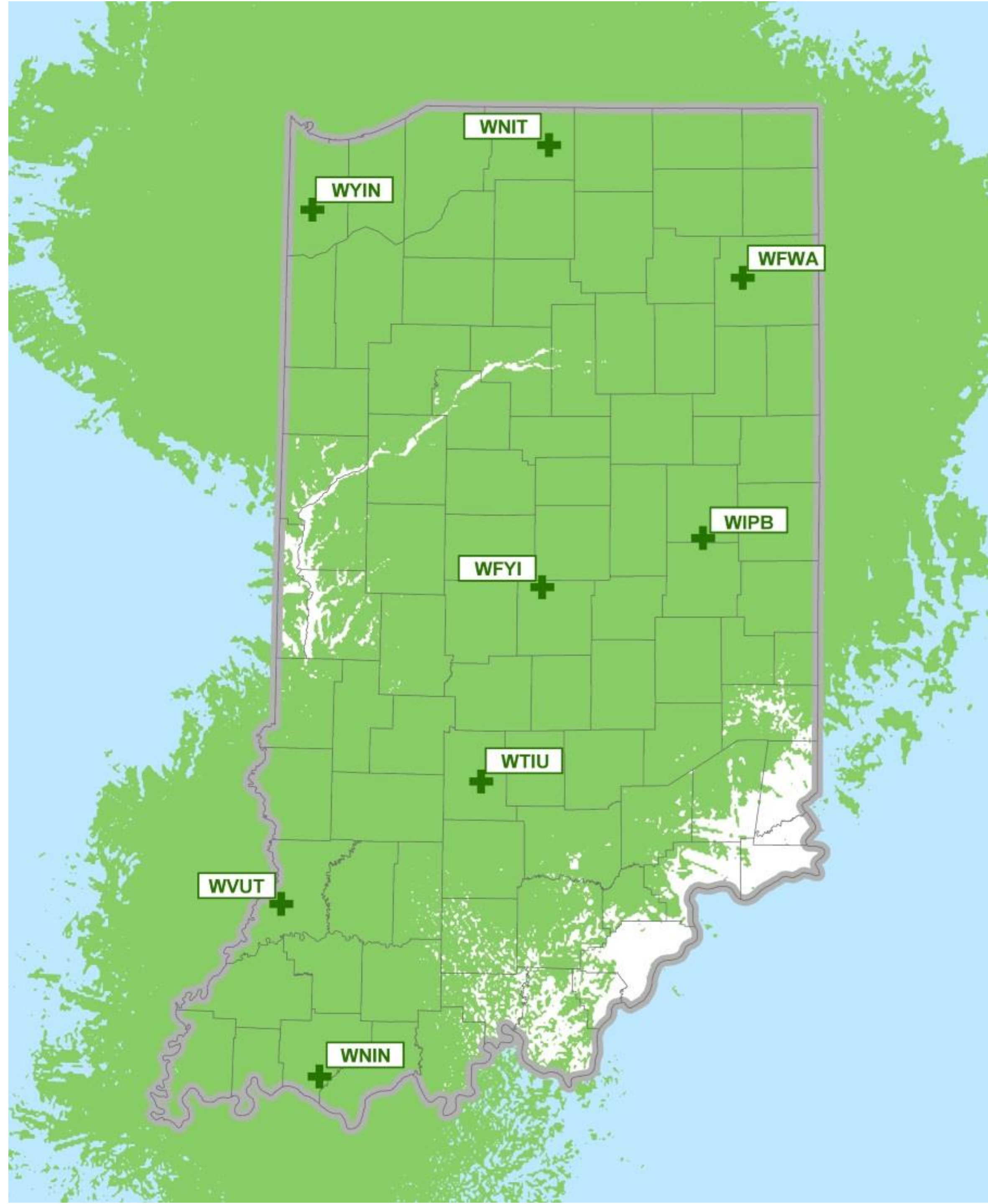
Public television is resilient and reliable

Secure Content Distribution over DTV

How it Works

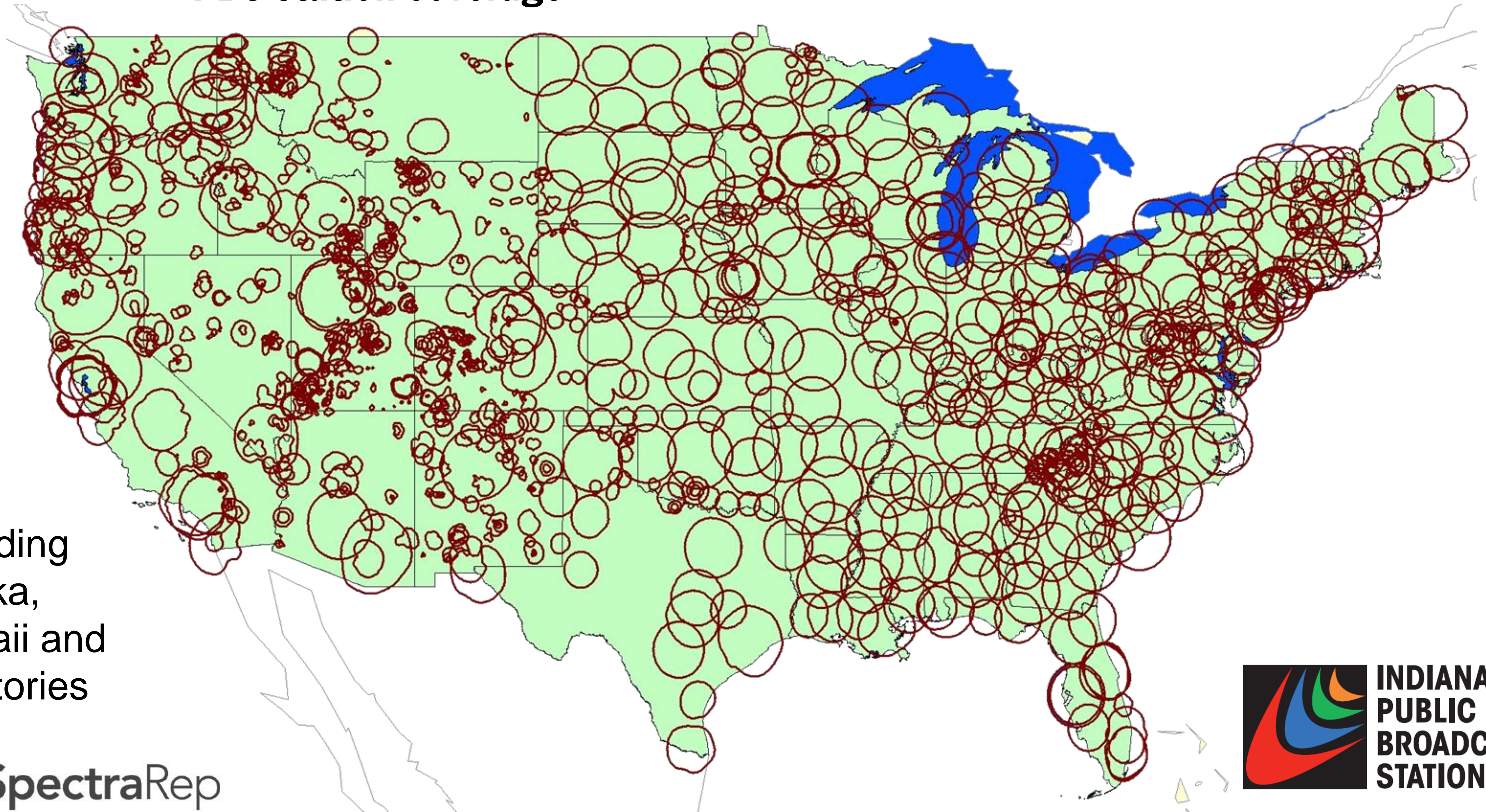


Indiana Public Television covers the state



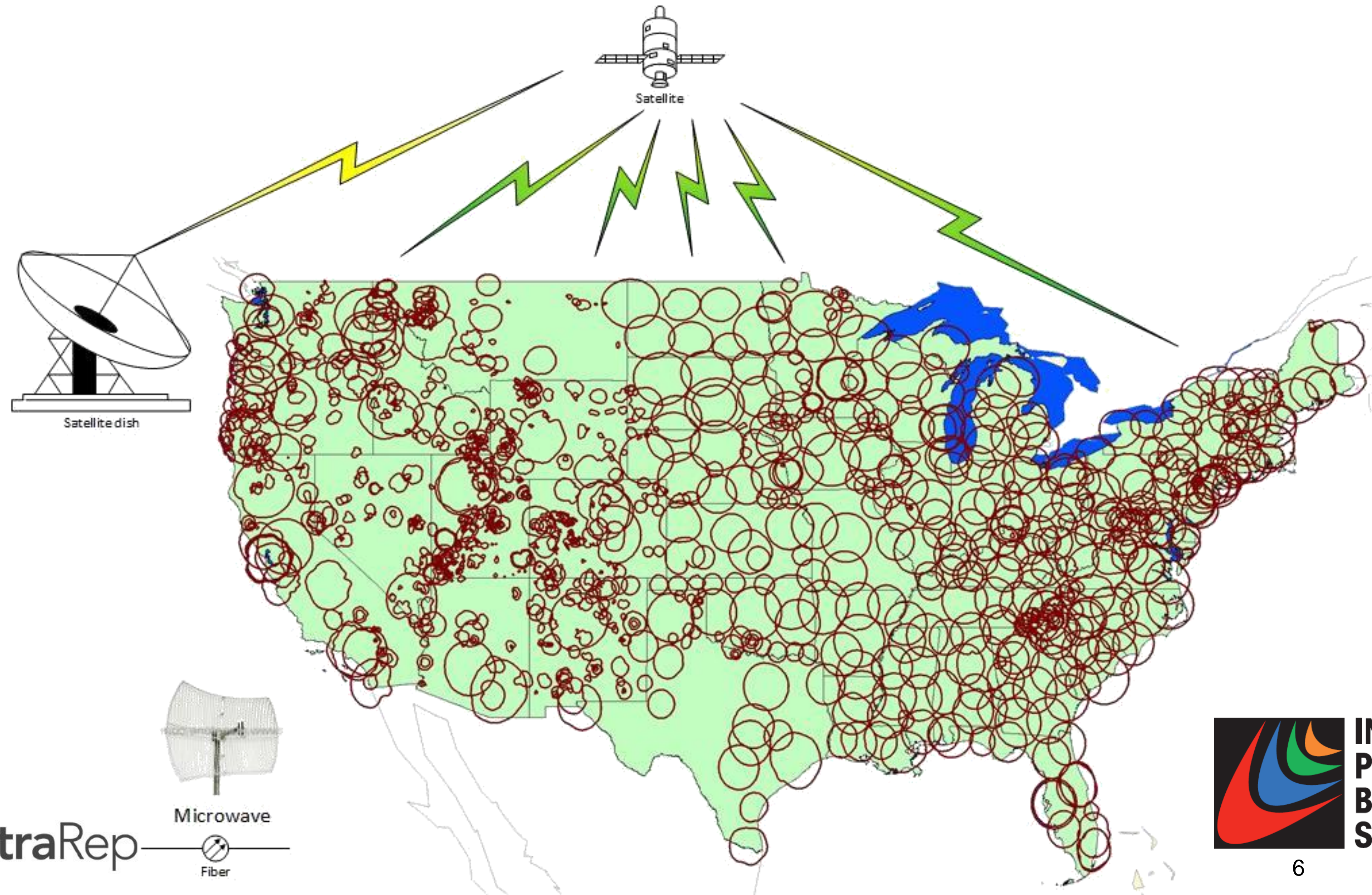
DTV Nationwide coverage

PBS station coverage



Including
Alaska,
Hawaii and
Territories

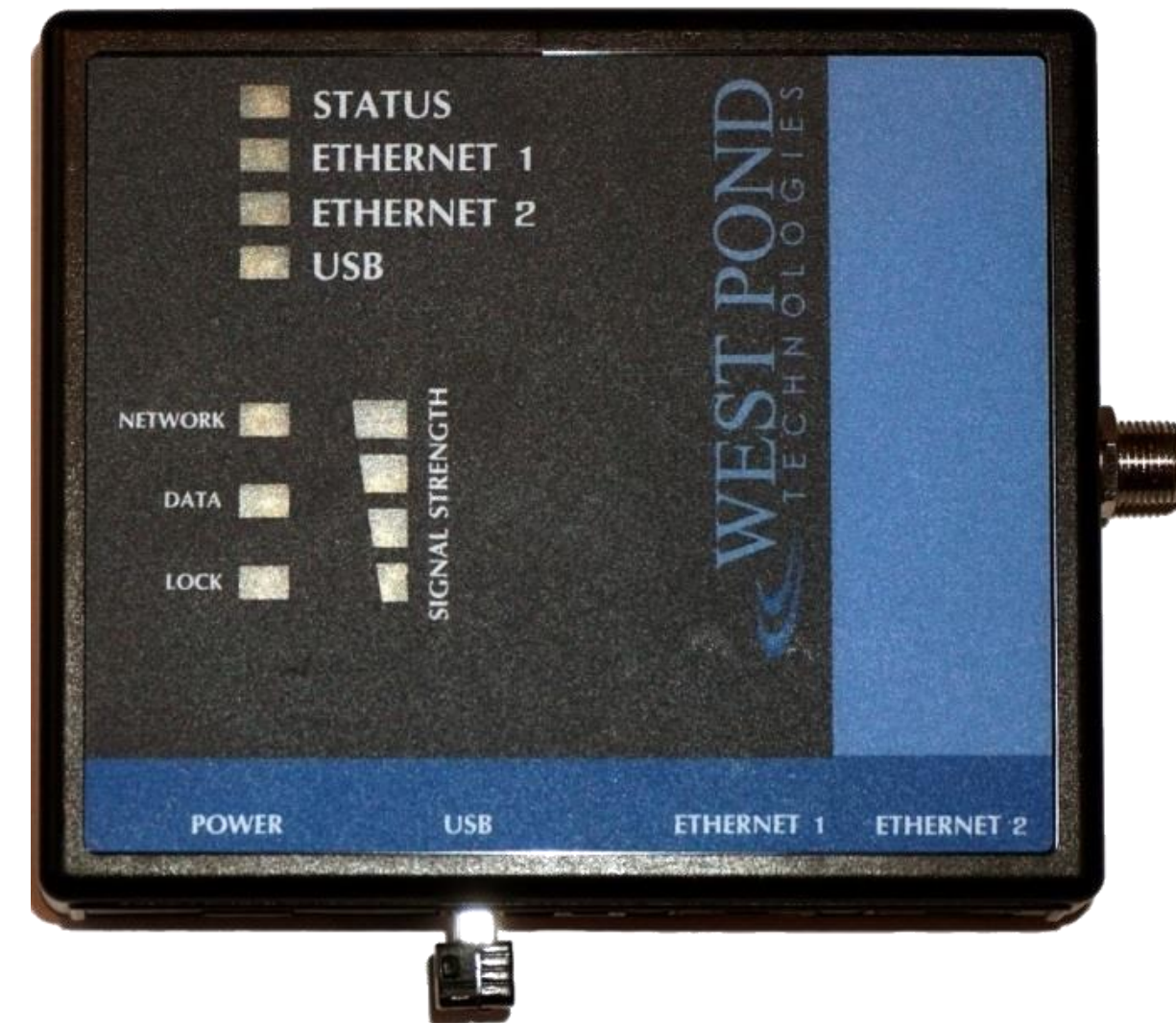
Satellite, Fiber, Microwave and other existing backhaul



Receive and Station Equipment



USB receiver Dongle



Linux Appliance Receiver



TV Station Equipment



Antennas



Houston PD

- DHS Exercise
- Republican debate
- Final Four
- Flooding surveillance
- Helicopter video
- Marathon
- Super Bowl



Datacasting Enhances FirstNet

- Americas Public Television Stations (APTS) coordinating bandwidth nationwide
- New licensed spectrum
 - Optimized for data
 - One-to-many content delivery
 - Bandwidth can increase during emergencies
 - Towers, backhaul
- Datacasting enhances the FirstNet mission
 - Rural coverage
 - Congestion relief
 - Available now
- Datacasting offers new licensed spectrum, one-to-many delivery over an existing network now
 - and these capabilities can enhance the FirstNet mission in the future

• **Datacasting is complimentary, not competitive!**



The background of the slide features a blurred image of several hands raised in the air, holding pens or pencils, suggesting an audience participating in a Q&A session or a presentation.

Mark O'Brien

SpectraRep

703-802-2975 Office

703-625-6462 Cell

mobrien@spectrarep.com

Lloyd Wright, President/CEO
WFYI-TV

1630 North Meridian Street
Indianapolis, IN 46202

(317) 614-0413

lwright@wfyi.org

Perry Metz, Executive Director, RTV Services
Radio/TV Ctr., Indiana University

1229 E. 7th Street

Bloomington, IN 47405

812-855-8000

metz@indiana.edu

Questions? Thank You